

WHAT IS CLAIMED IS:

1. A fuel supply method for a fuel injection device including a fuel injection unit and a holding-and-supplying unit holding the fuel injection unit, the fuel injection unit including a first fuel injection member, a first atomizing mechanism surrounding the first fuel injection member, a second fuel injection unit disposed radially outside the first atomizing mechanism, a second atomizing mechanism disposed radially outside the second fuel injection member, and an outer casing surrounding the second atomizing mechanism, comprising:

supplying fuel to the first fuel injection member through a first fuel supply passage internally formed in the holding-and-supplying unit; and

supplying fuel to the second fuel injection member through a second fuel supply passage internally formed in the holding-and-supplying unit.

2. The fuel supply method according to claim 1, wherein the first fuel supply passage and the second fuel supply passage are arranged so as to overlap each other with respect to a flowing direction of combustion air.

3. A fuel supply system for a fuel injection device including a fuel injection unit and a holding-and-supplying unit holding the fuel injection unit, the fuel injection unit including a first fuel injection member, a first atomizing mechanism surrounding the first fuel injection member, a second fuel injection member disposed radially outside the first atomizing mechanism, a second atomizing mechanism disposed radially outside the second fuel injection member, and an outer casing surrounding the second atomizing mechanism, wherein

the holding-and-supplying unit is internally provided with a first fuel supply passage through which fuel is supplied to the first fuel injection member and

a second fuel supply passage through which fuel is supplied to the second fuel injection member.

4. The fuel supply system according to claim 3, wherein the first fuel supply passage and the second fuel supply passage are arranged so as to overlap each other with respect to a flowing direction of combustion air.

5. The fuel supply system according to claim 3, wherein the holding-and-supplying unit includes an integral assembly of an outer ring joined to the outer casing, an inner ring joined to the second fuel injection member, a cylindrical part joined to the first fuel injection member, and a fuel feed arm joined to the outer ring, and

air passages are formed between the outer ring and the inner ring and between the inner ring and the cylindrical part.